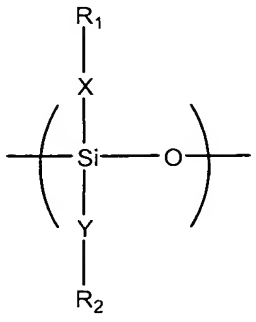
ABSTRACT

The invention relates to the use of at least one polymer comprising a repeating unit of formula (I):



(I)

in which:

X and Y = single bond or linear C_1-C_{50} hydrocarbon group;

R_1 and R_2 = H, CN, $C(Z)_3$, $CH(Z)_2$, CH_2Z with Z = halogen; NH_2, NHR_3, NR_3R_4 with R_3, R_4 = halogen, CH_3 or linear or branched, saturated or unsaturated C_2-C_{20} hydrocarbon chain, optionally comprising one or more heteroatoms and/or chemical functions comprising at least one heteroatom; at least one from among R_1 and R_2 being $\neq$ H;

or of a composite comprising this polymer and one or more conductive charges, as sensitive material in a sensor for detecting nitro compounds.

Applications: Detection of explosives, control/monitoring of atmospheric pollution and of ambient air quality, monitoring of industrial sites.